

# How much does the largest wind turbine blade weigh



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### How Much Does A Wind Turbine Blade Weigh

The largest wind turbine blades in use today can be over 350 feet (107 meters) long, with each blade weighing as much as 30,000 pounds (13,607 kg). Heavier blades capture more energy:

### [502-ft blades for world's most powerful wind turbine could light up](#)

Three ultra-long wind turbine blades, each stretching 502 feet (153 meters) long and weighing 92 US tons (83.5 tonnes), have been shipped from the Port of Yantai in China's Shandong



### How Much Does a Wind Turbine Blade Weigh?

In terms of weight, a single wind turbine blade can weigh between 1.5 to 2 tons (3,000 to 4,000 pounds). As of 2020, numerous large turbines have been installed worldwide, generating

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The weight of a wind turbine blade varies considerably with its size, but typically, a single modern onshore wind turbine blade can weigh between 12,000 and 17,000 kilograms (26,455 to





## National Wind Watch , Size of Industrial Wind Turbines

How much do wind turbines weigh? In the GE 1.5-megawatt model, the nacelle alone weighs more than 56 tons, the blade assembly weighs more than 36 tons, and the tower itself weighs about 71 tons -

## How heavy is a wind turbine blade?

How much does the biggest wind turbine blade weigh? (LZ Blades) has rolled out a 123-metre long blade which the company claims is the world's longest wind turbine blade.



## How Much Does a Wind Turbine Blade Weigh?

Here you can compare the rotor diameter and blade weight of two offshore wind turbines. A medium-sized Rampion, and the Bard VM, the world's largest wind turbine (to date).

## Rotor and Nacelle Mass

Table 3.3 shows blade mass of very large wind turbines. The introduction into Enercon's E126 design of a jointed blade with a steel spar on the inner blade is a clear example of where blade technology is



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These very large wind turbine blades weigh in at a whopping 26 tons. The implications of these variations in weight branch out to many other

aspects of wind energy, such as infrastructure

## Wind Turbine Blade Weight: A Comprehensive Guide

How much do typical utility-scale wind turbine blades weigh? A. Typical utility-scale wind turbine blades can weigh several tons, often between 10 to 20 metric tons each.



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